

SEQUENCE LISTING

<110> Greenspan, Ralph J.
Edelman, Gerald M.

<120> Method For Functional Mapping of An
Alzheimer's Disease Gene Network and For Identifying
Therapeutic Agents for the Treatment of Alzheimer's Disease

<130> P-NI 4577

<150> US 09/490,243

<151> 2000-01-24

<160> 80

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 509

<212> DNA

<213> Drosophila melanogaster

<400> 1

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tcttctcacc cgacagctgc tttcatctcg tatggtacct tcttctttat ttatgtacat 420
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<212> DNA

<213> Drosophila melanogaster

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atttaagcgc aaaagttcaa ttaataaaaa ttagaatttt aataactaaca taatttggac 180
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aatcaattt ccataacaac cgct 264
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<211> 367

<212> DNA

<213> Drosophila melanogaster

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atttgatttg ttactaatta ttcatatata gagttgtata tatatgcgta tgtatatata 180
aatagtccaa attatgttaa tattaataatt ctaattttta ttaattgaac ttttgcgctt 240
aaatttagca atttatttgt tatctttttc taagtttatt tttttccttt ttcgttcaca 300
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<212> DNA
<213> *Drosophila melanogaster*

<220>
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<223> n = A,T,C or G

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ccgaatccag naanatatcc ccgtcaanaa aaaaaacata taaaatatga aatgggtacat 180
aanaaatatg tccantccaa ccaaccaacc aaacaaccaa ccaacaaaca acaannacca 240
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aaaacaggat acaagccact tatectaaca aacgccaggc tacactgaga aaataagcat 360
cngagtttg tatggatagc agaaattacc catattcgtg gactaaagggt ggtgtactga 420
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<210> 5
<211> 395
<212> DNA
<213> *Drosophila melanogaster*

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aaaaaaaaac atataaaata tgaatgtaca taaaatatg tccatccaac caaccaacca 180
aacaaccaac caacaaacaa caaaaccaac caaccacaaa tcccaaaaac cgccaacaat 240
ccaaaatgta actaaaacca ttgtgaaaac agatacaagc cacttatcct aacaaacgcc 300
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gtggactaaa ggtggtgtac tgattgactg attga 395

<210> 6
<211> 188
<212> DNA
<213> *Drosophila melanogaster*

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188

<210> 7

<211> 186

<212> DNA

<213> *Drosophila melanogaster*

<400> 7

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cgaaagtgat aatttgtgtt attttttgtg tatgggattt tgataaatgc cttatgagtt 180
tagaac                                           186
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<210> 8

<211> 297

<212> DNA

<213> *Drosophila melanogaster*

<400> 8

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gtgtaaccga gttggcggag cgacgcagtg cgatcatacc agcttccaca cagacggctt 180
tgcaactggc gccgttgaag tcacccgtgg atcgggacaa ttctctgaaa ttcacatcat 240
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<211> 710

<212> DNA

<213> *Drosophila melanogaster*

<220>

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<223> n = A,T,C or G

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caactcagat cgaaactgaa aaattttaca tttccatggt ttattttaat gtgaagttaa 180
actgcaaatt tctagtctaa gcgtagtagt taagattagc cttcttcttc gcctgcactt 240
ccatgatggc gtccatgaat ctctgctgta accgaattgg cggancgacg cagtgcgac 300
ataccacttc cacacaaacg gtttgactg ggcgcgcttg aatcatccgt ggatcgggac 360
atcctcgaaa tcacatcatg ctaactttca tttacgcaat gaattgcata atacggccgg 420
cttccccttg ggatttgaaa ncatctacat ccnangacca acccccaac cgatccaaan 480
tcccgaatgg tcccaatcca aggnattcn aattccnct gnggccact gcntaaggcc 540
atccccattn atcttaatcc ggcgcntnn ctctnaggaa ccgnttccat atcctgncnn 600
cctccttggt tacaaagccc antcccatn ccnaaggaa gaccttcgct accgggtggt 660
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<210> 10

<211> 479

<212> DNA

<213> *Drosophila melanogaster*

<400> 10
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agtaaatggt tacttttaag agccgttccg atgttatatt aaaggcgatc ttcaagggtcg 120
aactcagatc gaaactgaaa aattttacat ttccatggtt tattttaatg tgaagttaa 180
ctgcaaattt ctagtctaag cgtagtagtt aagattagcc ttcttcttcg cctgcacttc 240
catgatggcg tccatgaagt cttcgtgcgt aaccgaattg gcggagcgac gcagtgcgat 300
cataccagct tccacacaga cggctttgca ctgggcgcgc ttgaagtcac ccgtggatcg 360
ggacaattcc tcgaaattca catcattgct aacgttcatt ttacgcgagt gaatctgcat 420
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<210> 11

<211> 355

<212> DNA

<213> *Drosophila melanogaster*

<400> 11
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aaagggacag tggagtcagt ggtcggcaaa ggtggtccca ggacgagcgt ttgcctcgc 180
cgaggacgat acaccctaac ccataacatc ataatcccag ccgggcccgc tcgtcgtccg 240
tgtcaaggag caagcaggac cacggaggca aggcgttgca ggagaaatgc cgcaggagca 300
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<210> 12

<211> 171

<212> DNA

<213> *Drosophila melanogaster*

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aatgtaacac gttctagaca ttgacataat ccctgttcaa taccacgcaa ttttaaacca 120
tccaacggca gcataaattt cttctccttc tcacccctcg cttacacac a 171

<210> 13

<211> 170

<212> DNA

<213> *Drosophila melanogaster*

<400> 13
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aatgtaacac gtctagacat tgacataatc cctgttcaat atcacgcaat tttaaaccat 120
ccaacggcag cataaatttc ttctccttct catcctcgtc cttacacaca 170

<210> 14

<211> 162

<212> DNA

<213> *Drosophila melanogaster*

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aatgtaacac gtctagacat tgacataaat ccctgttcaa taccacgcaa ttttaaacca 120
tccaacggca gcataaattt cttctccttc tcacccctcg cc 162

<210> 15
<211> 249
<212> DNA
<213> *Drosophila melanogaster*

<400> 15
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ggataaamat agtaaaggaa gaaagtgtgc atggaattag aaattaggaa ttaggttttt 120
ttttdttttca gataaaagga maaagaagga aaaatttaaa gaaaggatat ggaaaaatga 180
gagaagaaat tatagagaaa ataatgcatg attgagaatg aagtaagaat tgagaggaat 240
waaattaag 249

<210> 16
<211> 709
<212> DNA
<213> *Drosophila melanogaster*

<220>
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<222> (1)...(709)
<223> n = A,T,C or G

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gcaaacggtt tgcgagcgc agttgcgacg ccaaactttt tctgttcataa acggcggtcca 240
aattctcaag aactgacgcg ccgtaatgtc cttgttgcga aattaaaaac aatccttagg 300
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cngccancna ntatnggagc cttggcccca aagntccaa tgatctcnaa ngactcnega 660
ncccccgcc ntaataggat cangtgnna nacataatcn catcacngg 709

<210> 17
<211> 468
<212> DNA
<213> *Drosophila melanogaster*

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gagcatgcat cttaggggcc caattcgccc tatagttagt cgtattacaa ttcactggcc 420
gtcgttttac aacgtcgtga ctgggaaaac cctggcggtta cccaactt 468

<210> 18

<211> 416
<212> DNA
<213> *Drosophila melanogaster*

<400> 18
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ataaataaat gaaaacacat taacacgaac aaaacaataa tcaagaactg gagcggattg 240
ggtttcggtt tccagcgatt acctggagat caccatggca accagtcaca ctcatattaca 300
cttggaatgc atgggagttc ttctatcaac taacaaatcc tatttcatat acaacacggt 360
aactatgttt gcttggttag ttgcgtttcc tgctgcttgt tataagtaca caatat 416

<210> 19
<211> 286
<212> DNA
<213> *Drosophila melanogaster*

<400> 19
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ctgtaacttg aatgtgggta agtaaagagg tgcatacata tttttttaca cgcgtatata 120
gtttgcgttt ttgcgtttcc acacaagata cgtacttcgt agccccccctt cccctttcca 180
aatactgtat cacaaagatc ataactcaaa atgctattgc tttgacttac atcttatttc 240
ggtgggtgtca actgcgccac catacgaaaa tacataaatt atagcg 286

<210> 20
<211> 706
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

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gtttgtggct tgccttttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180
taacaataat attgctggaa taaacacatc caaggtaata ctcagacagc actcgtcatc 240
gccctcatcc angatattgg cctgctggcg cacatcgatg ccctgctgca caactccgcc 300
ttcttggett cggcttgaag ncttncccc ctcctgttcn ggatctcctc antccgtaaa 360
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tccatggtaa caaagcccat ccccaatncc cangangacc ctcgctaccg ggttggtcct 660
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<210> 21
<211> 459
<212> DNA
<213> *Drosophila melanogaster*

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = A,T,C or G

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 aacaataata ttgctggaat aaacacatcc aaggtaatac tcagacanca cgtcgtcatc 240
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 gtagaactcc tcacgctcga gctcgtccag ctccganatg atgtaggcca aagtcctatc 420
 gattcggggg atgatcacat gctcaatggc gttttggta 459

<210> 22
 <211> 483
 <212> DNA
 <213> *Drosophila melanogaster*

<400> 22
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 aaacattgta gacgaagcat gtggaattaa agccaaacac gataattgtg ccgagactct 120
 tggccagaga ttgtcaaggt cgtgcatctt acgcgagtaa atcaaggaaa atgtgagcag 180
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 caa 483

<210> 23
 <211> 514
 <212> DNA
 <213> *Drosophila melanogaster*

<220>
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 <222> (1)...(514)
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 aatacggctg ctgttgctgc tgctgactac tgaracatat ttaatttata tttcttgag 180
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<210> 24
<211> 430
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G

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aatacggctg ctgttgctgc tgetgactac tgaacatat tttaatttat atttcttgga 180
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caagttgcaa agcccttagc ctttaatgcc atccagctgc cgggaaagcc gggaaagctg 300
agaaaacaaa actgactcgt actgaagctg aaactgaaag aacttttagt cctattccrg 360
gggttncgga tggatccaac yccccagata agcagattta tgacctaac accgaaactc 420
aaataactgg 430

<210> 25
<211> 213
<212> DNA
<213> *Drosophila melanogaster*

<400> 25
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tctcggacac gtacagbbcg tcaaggaact tacggatatc cttgttcttg acgstcgtgg 120
actgctggat gagggcggca gatccggaga cagactcaat atcgttccgt amscgtaagg 180
tyggccctct ggavagtgag gtcacccacc gcg 213

<210> 26
<211> 365
<212> DNA
<213> *Drosophila melanogaster*

<400> 26
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tctcggacac gtacagaccg tcaaggaact tacggatatc cttgttcttg acggtcgtgg 120
actgctggat gagggcggca gatccggaga cagactcaat atcgtttccc tccacgataa 180
gttcgtcctt ctgggcagtg gagttgacca cggtgacgcc aggagccatc tccacacgac 240
ggatgtactt ctcacccaag aagttacgga tctcaatgac cgtgttggtc tgggaggtga 300
cacagttgat ggggaaatgg gcgtacacag cagcatctt gtactggatc cgaattcaca 360
aaggg 365

<210> 27
<211> 212
<212> DNA
<213> *Drosophila melanogaster*

<400> 27
acattttaga ttgaaacaca ttccaaaagt ctaagactct agcttcacaa cggtcgtctt 60
ctcggacacg tacagbbcg caaggaactt acggatatcc ttgttcttga cgstcgtgga 120


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ctgctggatg agggcggcag atccggagac agactcaata tcgttccgta mscgtaaggt 180
yggccctctg gavagtgagg tcacccaccg cg 212
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<210> 28

<211> 691

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(691)

<223> n = A,T,C or G

<400> 28

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atacatactt ttctgcttat tggaatagtc tacacacttt tgctacatag gtacaattaa 120
gtttgtggct tgccctttgc gaattacaat atggaaacgg atacagaaca gaaaatagtt 180
taacaataat attgctggaa taaacacatc caaggaata ctcagacagc actcgtcatc 240
gccctcatcc angatattgg cctgctggcg cacatcgatg cctgctgca caactccgcc 300
ttcttggett cggcttgaag ncttcccc ctcctgttcn ggatctctc antccgtaaa 360
accctcccn caactctcca ctccaaatga tttnggcaat tcnatcaatc cggganaatc 420
catgcccatt gettngtat tccctccctc tggcactncn aacccccggn taaacgcatt 480
cctgtgttca ttcaatccaa ggnaatccgc attctcncg nggcctcact ctctaaggcc 540
atcccnataa tctntaatcc ggcgctttaa nctatggaac ngntacatac ctgacatcct 600
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actatnnac cctntttctc ttcttcgtcc a 691
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<210> 29

<211> 677

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(677)

<223> n = A,T,C or G

<400> 29

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tgccagaga ttgtcaaggc cgtgcatctt acgcgagtaa atcaaggaaa atgtgagcan 180
gttaaagaaa atttctacct actaaaaaca atattaatgc atctccaat attagtttct 240
tcctacagga tggtagatgg ttttggaat gtatctttt atgtacctgc tctttggtgt 300
canatcnaa tcncgaaggc caattctgca aatatccaca cctggcgggc cgctcgaaca 360
tcntetaaan ggccaatccn ccnattatga atcctatana atcncctggc gtcttttaca 420
ctctganggg aaaccngcn ttncactaa cctgcacct ccttcnct gnttatataa 480
aagcncatc cctccacatt gcccctaagn atgacctt cgcctanccg gggntgttct 540
cntactcttc nntaccccc tcttctctt ccttcgggc cnactaaggc cctggcattt 600
tgcccccaat aaggngnctt gccnaagtc ccaatgtctc nangactccg aacccnccc 660
ctaaaggacn cctgaaa 677
```

<210> 30

<211> 141

<212> DNA

<213> Drosophila melanogaster

<400> 30

```
atgatataat ggattggttaa tcaattggca tcgaaattaa tttacgatat aaacaccact 60
taacgccgcc tcaacctaata tactgtctgc atatgcaata gaaaacgtat ataaattaat 120
taaataaaaa aaaaggaaag t                                     141
```

<210> 31

<211> 322

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 31

```
atttcgcgac aggttcggc acgccagtat ataacccaaa acacacnaac ntcaggggct 60
ggancgcgtc actgccgtgc tctccagcc ggcacagtca tccccgcc ccacaccaan 120
caaaaccggc cgtttgtgca natgacatag gcgcgaccan ccaactgacc cggctgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcttt agtttgccc 240
gctatcccnc acacaaaccc agantggggg tctatggaag accacaagtn gttgcgttgg 300
aactgctaaa natttnnact gt                                     322
```

<210> 32

<211> 308

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(308)

<223> n = A,T,C or G

<400> 32

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat tatttacatg 120
tttacatata cgaacatcca aagcaaagg atatacacgt ataggactca acatttaca 180
attcaatatt cttatatgtg gaaagcanag cgttacgatt atctcccanc taactggaag 240
cgattgaatg tctatacatn atttgtaatg ccaaataaaa taaaatatat cacgttatat 300
taaacagt                                     308
```

<210> 33

<211> 201

<212> DNA

<213> Drosophila melanogaster

<400> 33

```
acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgtg tatttgaacc acgtacttat atatttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
```

aattcaatat tcttatatgt g

201

<210> 34

<211> 187

<212> DNA

<213> Drosophila melanogaster

<400> 34

acgcatacaa tatatgatta tacatacata tatatatatta caatgataaa gaatgtaagg 60
cccaagccaa gcaaacacat atgtaacgcy tatttgaacc acgtacttat atattttacat 120
gtttacatat acgaacatcc aaagcaaagg tatatacacg tataggactc aacatttaca 180
aattcat 187

<210> 35

<211> 687

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(687)

<223> n = A,T,C or G

<400> 35

agaattacca cgcgaacaca attctgtttt attgttttta atacatatatt aatctttgcy 60
anaagagcta gtgtaggtag tctggaattt ttcatatatt taacgatata cattggtaat 120
gattacatag ttggattaga actaataact gtagcagtta atggaatgtt caccaccgct 180
ctggatcatc gttgctggct agctggcaag gcatcatcac gcacttttcc atgcggacgc 240
nattccttgca cttgtggctc aatcggtgtt cattaagggtt cgggttcggt ggcgaacggc 300
attatcgcca caggttgcyg tgcattggtt ccaagcggaa cactcccaat tancnact 360
cgtcctgcyg tccggttgcg gactcttacc acatccttcc tctccaatcc cgtccctga 420
ttgattacnn tcatccaccc ctggtaacac nattccaact tccagttgct tggaaatgct 480
gcncctact cgaatacga cncctccttc ccatgaaccn cccagagct tgcacgtgga 540
cncatcatc ccaagnaatc tgcattctcc cgcgcncac tcttaagcca tccccaatat 600
cttaatccgc ccttaatcta tgaacgntt ccatacctgn canctccct ggtaaaaanc 660
ccatctccct tncnangan gaccctc 687

<210> 36

<211> 311

<212> DNA

<213> Drosophila melanogaster

<220>

<221> misc_feature

<222> (1)...(311)

<223> n = A,T,C or G

<400> 36

tcccatcaat tegtactca tcaattgaaa tttcagattt ggtaatgcta aagggtatc 60
atgattgcag ttctatgaag tggatcaaag cgatttcggg tcaaagattg cgggtcgctg 120
ctagaagat tgatctctag tgcttctcca gtgcttgctt agttcggcga gggcataacc 180
ttgatgcgt ccaagccttg tttctccang gtctcgcggt gcttgggata ggcgatctgg 240
ataagtctgt acatcctctg gcgcacattc ttgcgaaca gcgaagcgat tccatgctcc 300

gtgacgactt a

311

<210> 37
<211> 670
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

<400> 37
cccatcaatt cgttactcat caattgaaat ttcagatttg gtaatgctaa agggctatca 60
tgattgcagt tctatgaagt ggatcaaagc gatttcgggt caaanattgc gggtcgctgc 120
tagtaaaata gtgatctcta gtgcttcttc agtgcttgct tagttcggcg agggcataac 180
cttgatgcgc tcgaagcttg tttctccagg gtctcgcggg gcttgggacg ggcgatctgg 240
ataagttcgt acatcctctg gngcacattc ttgccgaaca cgaagcgatt ccntgctccg 300
tgacnactta ntggacttng gcacgcgaan ttgacaaccc agcgcctgcc ttcacgttng 360
gaacaatctt gctctcccc tgttggtggt caatgcattg cnataattgc acacccatcc 420
atcnaaacct ccncgtcccc naatnaattc acctntcccc naaccgggat taaanccgga 480
acatcatcta cncctgtcnt ccattccaat ccaagggaat cttnattcac cngcgggcnc 540
caacatctcn aaggccatcc caatatnttt anatccggct cttaactcta tggaacnnct 600
tncataacct gantccttcc ctgtttcaag ccncatcccc ncttcccaag ataccctcgc 660
taacgggtng 670

<210> 38
<211> 192
<212> DNA
<213> *Drosophila melanogaster*

<400> 38
accatttaat tattaaatat gattttattta tattaatatg tagtcaaaaa ctccgtgtta 60
gctttaattt acctacccca ctttgatctt aaataaatat gttaaattgt gattcaagcg 120
tgataattta tttggaacag cattgcgaaa attgrgtagt ycataatgtt ttttcttctt 180
ggkcactgag ca 192

<210> 39
<211> 362
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

<400> 39
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgcgc antgetgana gttaantcat gggaacagga natnccnctt 180
ccccaaaggg aatattttnt gttnaaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggcenaan ttncggggcn canannggcc tgctctntag 300

ggaatcncca nccccctntt atangccctc ttccgcctat aaacttgtgc cngaancccc 360
ng 362

<210> 40
<211> 322
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

<400> 40
atttcncgac aggtttcggc acgccagtat ataacccaaa acacacaaac gtcaggggct 60
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggtgacca 180
nacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240
gctatcccca cacanaaacc cacantgggg gtctatggaa gaacacaagt ggttgcggtg 300
aactgctaaa aatataaaac tg 322

<210> 41
<211> 323
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

<400> 41
atttcgcgac aggtttcggc acgccagtat ataacccana acacacaaac ntcaggggct 60
ggaacgcgtc actgccgtgc tctccagcc ggcacagtca ttccccgccc ccacaccaag 120
caaaaccggc cgcttgtgca gatgacatag gcgcgaccag ccaactgacc cggtgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttggccc 240
gctatcccca cacagaaacc cagantgggg gtctatggaa gacnacaagt ggttgcggtg 300
aactgctaaa aatataaaac tgt 323

<210> 42
<211> 176
<212> DNA
<213> Drosophila melanogaster

<400> 42
caagtgcggc ggcgacaaga aatccgcctg cggtgctcc aagtgagctt tcccccaaaa 60
aagatctgga gtagaggcgc tgcatttgt ctccgaactg atttctgtat aactcccaat 120
actaaaacga catgttttct catttacaca ccttgcaata aatgtccaat taaagt 176

<210> 43
<211> 323
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

<400> 43
atttcgcgac aggcttcggc acgccagtat ataacccaaa acacacaaaac gtcaggggct 60
ggaacgcgtc actgccgtgc tcctccagcc ggcacagtca tccccgccc ccacaccaag 120
caaaaccggc cgcttggtgca gatgacatag gcgcgaccag ccaactgacc cggctgacca 180
gacttgacc gtgcgccatc aactggaatc ttggccacaa gcacagcaat agtttgggcc 240
gctatcccca cacagaaacc cacantgggg gcctatggaa gaccacaagt ggttgcgtag 300
aactgctaaa aatataaaac tgc 323

<210> 44
<211> 176
<212> DNA
<213> *Drosophila melanogaster*

<400> 44
caagtgcggc ggcgacaaga aatccgcctg cggtgctcc aagtgcgctt tccccaaaa 60
aagatctgga gtagaggcgc tgcattctgt ctccgaactg atttctgtat aactcccaat 120
actaaaacga catgttttct catttacaca cctgcaataaat atgtccaat taaagt 176

<210> 45
<211> 323
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(323)
<223> n = A,T,C or G

<400> 45
atttcgcgac aggcttcggc acgccantat atancccaaa acacacaaaac gtcaggggct 60
ggaacgcgtc actgccgtnc tcctccancc ggcacngtcn tccccgccc ccacaccaag 120
canaaccggc cgcttggtgca atgacataag gcgcgaccanc caactgacc cggctgaccag 180
acttgaccgc tgcgccatca actggaatct tggccacaag cacagcanta gtttgggccc 240
ctatccccac acatanaacc cagattgggg gvvatatngaa naacacaagt ggttgcgtag 300
aactgctaaa natatnaaac tgc 323

<210> 46
<211> 362
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

<400> 46

```
gctgaactgg acctgaatat aaacntatac acatctattg caacaangat acacaccttg 60
ctgttaacca cctgcaacat ccaancttct tacatccctg gtgttagttc gacanactct 120
acatttcccc acctctgccg antgctgana gtt aantcat gggaacagga natnccnctt 180
ccccaaaggg aatattttnt gtt naaataa atactgcctc ttgcngttca acgtananan 240
anaaataccn aattccgaaa ggggcnaa ttnccgggcn canannggcc tgcctcntag 300
ggaatcncca ncccttntt atangccctc ttcgcctat aaacttggtc cngaancccc 360
ng 362
```

<210> 47

<211> 416

<212> DNA

<213> *Drosophila melanogaster*

<400> 47

```
agtttacatg tactttatct gttttgtata tcccagacag atagagttat ttattgaaca 60
cttcaactgg ctaggtcgta ttagggctctg cttgtaactt ttgtgtcagt aaccactcta 120
aaatagtata atgctagtaa ttctacccat caaccattg tatacatact tatattcaaa 180
accctttcac cacatttcta agcctagatt atggataatg cctctaatat gtaacgagtg 240
cttaggtcac cttagccagc cgctggtcga tgcatttctg gctgcgaagg tcgaaccaat 300
ttcccggaact gcagtaatgc aaaaccgctt ttccttcaa gcaaacataa tacttgttat 360
gctgcttgac gtctccaaat cgtgtatcct ctttcaactt ggtgcaatcg ggtacc 416
```

<210> 48

<211> 413

<212> DNA

<213> *Drosophila melanogaster*

<400> 48

```
caaatagttt acatgtactt tattcgtttt gtatatccca gacagataga gttattttatt 60
gaacacttca actggctagg tcgtattaga gtctgcttgt aacttttgtg tcagtaacca 120
ctctaaaata gtataatgct agtaattcta cccatcaacc cattgtatac atacttatat 180
tcaaaaccct ttcaccacat ttctaagcct agattatgga taatgcctct aatatgtaac 240
gagtgccttag gtcaccttag ccagccgctg gtcaatgcat ttctggctgc gaaggctgaa 300
ccaatttccc ggactgcagt aatgcaaac cgcttttccc ttcaagcaaa cataatactt 360
gttatgctgc ttgacgtctc caaatcgtgt atcctctttc actttggtgc aat 413
```

<210> 49

<211> 885

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(885)

<223> n = A,T,C or G

<400> 49

```
rtstartmn ctmrtnsttt ctamcmntd skasamdsdy strmrtdaca stanyrma 60
chndsnnnng nagatacgcc aagctattta ggtgacacta tagaatactc aagctatgca 120
tcaagcttgg taccgagctc ggatccacta gtaacggccg ccagtgtgct ggaattcgcc 180
cttcgtgaat tcggatctga ctgcaagtgc ggcggcgaca agaaatccgc ctgcggctgc 240
tccaagtgag ctttccccca aaaaagatct ggagtagagg cgctgcatct tgtctccgaa 300
ctgatttctg tataactccc aataactaaa cgacatgttt tctcatttac acaccctgca 360
```

```

ataaatgtcc aattaaagta aaaaaaaaca aaaaaaaaaa accgaattcc gaagggcgaa 420
ttctgcagat atccatcaca ctggggggccg ctcgagcatg catctagaag gcccaattcg 480
ccctatagtg attcgtatta caattcactg gccgtcggtt tacaacgtcg tgactgggaa 540
aacctggggtt tacccaactt aatcgccctg cacacatccc ctttcgccag ctggcntnta 600
caaaaaggcc cncgattgcc ttcccacant gccacctgaa tgggaatgaa cccccgtac 660
cggccttaac cngngttggt ggttaccac ntacgcaacn tgcacccta cccncttcc 720
ttttcctctt ccnttccgg ttccctcacc tantggggcc taggtcaatt tcttnngcca 780
ccaaatntag tangtctttg cccccaaaag ttccctaatt gatcttctaa atganntcnn 840
gaaaccncac cgtntttant aaggatgcat cgcnnngtaa catcc 885

```

<210> 50

<211> 496

<212> DNA

<213> *Drosophila melanogaster*

<400> 50

```

cttgatccag caatctatctt ttcacaaacg ccaatgtcaa attttcttca gataatgtct 60
ctatcgctgt aataattcca tcgtaacacg aaggcaatgt gatcagtaga tgagaaatct 120
tatccatctc ttctatcttt gcaccagctg ccaacaattc acttataagt tcgtcaaaaa 180
tatgaaaatg gcttaatagt gacatctcac tcgatatgct cagagaaaagc aaacgttttc 240
gcagcgccag ttgcgacgcc aaactttttc gttcataaac ggcgtccaaa ttctcaagaa 300
tctgacgcgc cgtaatgtcg cttgttgcca aatttaaaaa cgagtcgctt aggtacgaat 360
tcacgaagcc gaattctgca gatatccatc acactggcgg ccgctcgagc atgcatctag 420
agggcccaat tcgcccata gtgagtcgta ttacaattca ctggccgctg ttttacaacg 480
tcgtgactgg gaaaac 496

```

<210> 51

<211> 936

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(936)

<223> n = A,T,C or G

<400> 51

```

acatcaatgc tagtgcttcc ttttaccgaa aacctattga atacgctaaa aaattggaat 60
agtcgcaagc ggaagtcggc caaaaaaatc cttagaat ttggaaccag ttcttctact 120
tgtcgatcg aaccaggcgc gtgtcgtcgc cgacctctc cagatccttt ggatcgcggc 180
ggaagcgata agtgcccaca tcttggttgg ccgattccgg caacgtcacc ttgatgcct 240
tgtactcggc tcgaccttcc ctgacctcgc gcaccgcag ctccatctcg gccttgact 300
cgtcatcggt accaatgtcc acgtcctgga ccgttctttt gcacgggtggg atcctcctcg 360
tcttggttcc agcatcaaaa tctcgatggg gacaatgggg ttgccgtcga cgctacgac 420
ggnactangt gcgccantag ggcaggatct ccacgggtaa tctccagaaa atcggaattc 480
tctggctggg ttggcagact caaactgcan tcccgcantc cacnaatgtt tgggtcanct 540
ccntttgaaa tgggaggtat ggggtccatca aggnagcgaa attcacnaaa nggggnaatt 600
ctgcannata tccatcacac tggngggccg ctccaagcaa tgcactctaaa agggccccaa 660
ttcctcccta atangngagt ccgtattaca aattcaacng ggcgctcggt ttanaanngt 720
cgggaatggg gaaaaaccn gggngntaan caaacttaat ccncttggga agcanaatcc 780
cccttttcgc aagangggng tatnannaaa nagggcgca acgantgncc cttcccaana 840
antttccnan cctgaatngn gaatggacnc nccctgtnnn ggggcaatna acccgngggg 900
gttgntggta ncncaangt ntacggctaa anttgc 936

```


<210> 52
<211> 629
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(629)
<223> n = A,T,C or G

<400> 52
gtttgcaaac cttectatatt aagtaaagtg tttgactctg gctcccaaag cttnccttgg 60
gaaacgggaa aaattctcta cantgtatat gtgcgcagtc aaactcattt ggtaaattac 120
acatnaataa atatgtataa caacaactan acatatgttn atggaaaata aaaattttca 180
gtaacgactn aactcgantg tcggtagcat naaggganna agtcgtcnan tgttattatc 240
taatttgcag cctgtattgt ccagatacaa tatgtnatng atgcantgta tatctnttgt 300
gtacatanat atatgtttta ggcgactcct atttntctgc ntgtgcatat cgatcaaagt 360
cctactttcn tgattgtttt gtgtgtttcc nctaaggaaa anatacatgt gttatatcny 420
naaaagaatt gtatcgtatt aggtttgctt cctcaaacat ccaccaaaaa tcgntntcnt 480
ntanancna aaaatacgaa aatnnttgtg ccttaaaaaa aaacaatcga ggnaatccca 540
antcenaatg cggngtcact cngntaccat atgctcnaa cttccctggg tcaaagccca 600
tncccaactn cccatganga ccttcgctg 629

<210> 53
<211> 977
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(977)
<223> n = A,T,C or G

<400> 53
cgtttggtgc cgggtattggt gggttgtagg ttgtttgtta gtagagagag agagaaccgg 60
tacgtataa aactacgctc ccattgccgg attgttattg gagaattgag cccgccaccc 120
aagcagccac ccacgtatca cccgctcaca agagcggaaa atggatacag tccgggttcc 180
tggcggtaga accgtaattt ctgtgatttg ctttttttgt gtttaagtaag tatttaataa 240
gtagattact gangtttgct gctccgcggg cgattccctt aggcggccac ttcgctangc 300
ctcggnccca ttctgaacct catcctttgt gctgggcctc atcaagcanc gaattcacna 360
aggcggaatt ctgcagatat ccatacact ggcgccgct cgagcatgca tccgagaggg 420
cccaattcgg cccctaatag ntgantccct attacaattc actgggcggg tcgtttttta 480
naaccggtcn ntgactgggg aaaaccctgg gcggttnccc aaacttaatt cnccttgcaa 540
gcacantcnc ccccttcgcc aagctgggng taattancga aaagnaggcc cgcacccgat 600
nggcccttcc caacnngttg cgcaggccng aaannggccg anatggancg cgcgccggtn 660
agccggngca attaatecgc nggnggggtg ttggtgnggt taanccgcaa accgtgaccg 720
gcntatacct tgccaagggc ccctantcga ccngntcnt ttccggcttt cnttncctt 780
ccttttncn ggcnaaantt cgnncgggtt ttcnccggtc aaagctcnta aatnnggggg 840
gntccctttt agggnttcen natttnaggg gcttnnacgg gnaantcca anccccaaaa 900
aancttgctt nnnngtgaan gggtnnacgt tnnnggggca ncnccctna taaaggngtt 960
tnccnctttg nagatgt 977

<210> 54
<211> 875
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(875)
<223> n = A,T,C or G

<400> 54
gcgatcttac aaaataaata acagcaaata gaaagataaa cttacatata agcgcaatat 60
tcaaagtgtt agtggcgtct acgaaatgtt tttcaattac tgctgggtgta agacacatag 120
ataataaatg tgatgtgttt tgtgtgtttt tttangtttg gcctaccaga agtgtgctct 180
aaatatatac caatgtgaat cgaaatcgta gtccttgcg ttctctata tacatgtgca 240
ccgtgagatc catagtccca tcgttttcgg ttttaagttac ccycgggcy yggcagattc 300
gnaatcatat gcacgtataa agatagactg cgtgcacagc tccggccctc ctccctgggaa 360
aacgcatagc cataccgaat tatccgatcc caangcatac atgggtagaa ngatctcggg 420
tccgttcate aacttcggga natgtcgcn cgntccggtc tccgtttccg cgaacagcct 480
tccggtcagt gtctannnc acgggtatta aggtaccaag tttgcaagat cacatcgatc 540
agcagcgtgg gtaaagtngg gcaccagcag tcaaggcang cgaattccac cnaangggcg 600
aaattccggc aagaataatc catcacactg gggggccggc tgaagcatg caatcctaga 660
aggggcccaa aattccgccc natattgagg tccatattan aaaagttcaa tgggcccgtc 720
gntttannaa acgttcntga ntgggaaaaa nccnggcgt ttacccaact taaatcnccc 780
ttncagnaa atnccccctt tcagcnaanc tgggcgtaat nnncnaaana ngnccccgcac 840
cggntgcccc tttcccaaca atttngccca agnct 875

<210> 55
<211> 465
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(465)
<223> n = A,T,C or G

<400> 55
ggggtcgtac tcggtgagga aatccaagcg cttatcatgc ttcaactttgc agacaatcag 60
tacatcgatt gatgaggaaa aagaagaccc cttgaatggg tcgataatca ttactgtoca 120
actcgattag agctccctcg ttgaggaagg tcttgccctc cagattgcca ttgaagccct 180
ggaccatttc cttgaccgcc cgcgtggcat ggctattctc cagatccctc gtgcgcgtan 240
tgctctccgc ctccaaactc tctgccttca ggtgactgga agtcttgcca tccgtcatgg 300
tggccanaat attgcgctgc tcaatcagaa tgtgcgacag ttgatacatt tccgactcga 360
gatgtgatat ctccctggnc gtctgtataa actccatata gttctttttg catgtttgct 420
tgagcgttgc tgccgtcggt tcggtgtagg cctcgatttc ctttt 465

<210> 56
<211> 238
<212> DNA
<213> *Drosophila melanogaster*

<220>

<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G

<400> 56
tgctgectgc tccttttggg actcctgggc ttcctagctg ctcccggcgt cgcctcgcca 60
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120
aggtctccaa gtcacagca acgaccactg tactacgacg ctccgattgg gaaaccatcn 180
aagactatgt acgctgacg tanagaatga aacaanaaag atttgaaacn cctanact 238

<210> 57
<211> 237
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(237)
<223> n = A,T,C or G

<400> 57
gctgectgct ccttttggga ctcttgggct tectanctgc tcccggcgct gcctcgccat 60
ctcgccacac tggaccagga aacggatcgg gatctggagc tgggtccgga aatccgttca 120
ngtctccaa gtcacagca cnaccactgt actacgacgc tccgattggg aaaccatcga 180
agactatgta cgcctgacgt aaagaatgaa acaataaaga tttgaaacgc ctaaact 237

<210> 58
<211> 238
<212> DNA
<213> Drosophila melanogaster

<400> 58
tgctgectgc tccttttggg actcctgggc ttcctagctg ctcccggcgt cgcctcgcca 60
tctcgccaca ctggaccagg aaacggatcg ggatctggag ctgggtccgg aaatccgttc 120
aggtctccaa gtcacagca atgaccactg tactacgacg ctccgattgg gaaaccatcg 180
aagactatgt acgctgacg taaagaatga aacaataaag atttgaaacg cctaaact 238

<210> 59
<211> 253
<212> DNA
<213> Drosophila melanogaster

<400> 59
attacgtccc tgccttttgt acacaccgcc cgctcgtact accgattgaa ttatttagtg 60
aggtctccgg acgtgatcac tgtgacgcct tgcgtgttac gggtgtttcg caaaagttga 120
ccgaacttga ttatttagag gaagtaaaag tcgtaacaag gtttccgtag gtgaacctgc 180
ggaaggatca ttattgtata atatccttac cgtaataaaa catttgtaat tatacaaata 240
aaaacaattt acc 253

<210> 60
<211> 236
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(236)
<223> n = A,T,C or G

<400> 60
aacaggcaaa agcgatatca gtaataaact aaacgcacca attggtttaa taaccaaagc 60
gttaagaaaa aaatcaaaga caaagccacg gcaaaaggcg cagacaacaa gttgtttgct 120
tttagttcgc gttctcctta ttttattttc cttccgttcg atttccacg cacgcgcgctc 180
gcagaaacgt caaattgaaa acatcancag ttgaaagcca actggttgcac tctacc 236

<210> 61
<211> 247
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(247)
<223> n = A,T,C or G

<400> 61
ttcaggcatc ttccttctaa ttctggctgt gggtttggca caaatgccgc tgcaggtggc 60
cgccaggggc caaaatggac attcgcaggg acagccgcca agaccgcca atggcaatgg 120
aaacggcaac canncagagt ggacaaggac aaagcgggca gaacaactag aactgggata 180
tttctggagg gggacaacac acctcctcgc cactttccca gttacttaaa taaacacttt 240
cccagc 247

<210> 62
<211> 767
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)...(767)
<223> n = A,T,C or G

<400> 62
ctaattgcgc tccatccatt tgttccctgc cggtgattcc cacatcttta atggtggagt 60
tatagaaatt attttgaata atcaaatac ctccaattat cttcactatt tcaactcaaag 120
acatggtttt tagcgtgctg gtcgtgttgc ttccaattgc gctgacggct ttcgaccatg 180
atccgaattc acnaaggcg aattctgcag atatccatca cactggcggc cgctcganca 240
tgcattctaaa agggcccat tcgccctata ntgagtccca ttacaattca ctggccgctg 300
ttttacaacg tccttgaact gggaaaaccc tggcggttac cccaacttna tcgcctttgc 360
agcacatccc cctttttccg ccagctnggn gttaatacca anaaggcccc ctawtawtga 420
cactatagaa tactcaagct atgcatcaag ctwrratacc gagcawcgga tccamataag 480
ataancagag accagcacia gtwtgtagcat rggabayata tacagcccat atacggagam 540
ayatatacagg atatwtwtat atatatatat ataaacagaa acatacatat wtatacagta 600
tatawgcama aaaaaataca ttatataaaa aaatatatac ragtatatam acacacacva 660
gtatatatat atacgtacga rcacgtacgc atwarcacac acacrvcacg gacacacaat 720
wtacrcgacg cacgcacatt tahacacaat tahtatacac mtaccaa 767

<210> 63
<211> 353
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(353)
<223> n = A,T,C or G

<400> 63
tawtgacact atagaatact caagctatgc atcaagctwr rataccgagc awcggatcca 60
mataagataa ncagagacca gcacaagtwg tagcatrgga bayatatata gcccatatac 120
ggagamayat atcaggatat wwtatatata atatatataa acagaaacat acatatwtat 180
acagtatata wgcamaaaaa aatacattat ataaaaaaat atatacragt atatamacac 240
acacvagtat atatatatac gtacgarcac gtacgcatwa rcacacacac rvcacggaca 300
cacaatwtac rcgacgcacg cacatttaha cacaattaht atacacmtac caa 353

<210> 64
<211> 609
<212> DNA
<213> *Drosophila melanogaster*

<400> 64
aatttttagc aattttcttat ttgggtttttc ggtacttttct ctagctgctt ttacttgatc 60
gcacatatat atatatatat atattctata catatacata ttcatatgaa tatatctttt 120
atcatcttta agaggagatt ttcagtgctc gtgtgggtgt gtgtgtttgt gtatgcttgt 180
atgtgtccgg ttgtcctata gccatttgaa ccactaagaa tttgtagccg ggggaagttgc 240
tatcaaatag agttgctcaa caacggctct ggctcgggtt gaaggaattt ttggaggctg 300
aggggagcca acgacacaac gcaagctgcc ccaaaaaaac gggctaagaa atcagggttg 360
gctaataaaa tacaagctt gcaagggcaa gaagaagaag aagactgagc actttctttt 420
cggtgcacg gcttacaacc agttcatagt gcgcctctc cgcgccttct catcgatggt 480
aggtaagccc ttgtttcaaa tgatgtgaat gggctctaatt aggagtttgt ctgtctgtgt 540
ctgtattgtg tctgcacaag ccagagaaaag agaggctggg gagaatggga gaaagtgggt 600
gatgggagg 609

<210> 65
<211> 554
<212> DNA
<213> *Drosophila melanogaster*

<400> 65
taaacaaga aaaaacaaaa ttccttttga aaatgcaaca ttaacaaata gaaagaaaca 60
aaacagaaca aacacgtaaa gaaagaggcc actacaaaac tgaaaagaaa atgtgaaaaa 120
tacaaaattt cgttttagcca ttaagattgt taagaatcag agtgtagat gtagatgagc 180
aagtgaattt tgtagggctt tgctaccagt tttacctgct taatgaataa gggtaaaaca 240
ttcatatgat tggattggaa gaatatatcg ggaatgctaa aaattatttg agtataagtt 300
aaatacaact gcgatttata tgtttaagtt ttaaatgcta tattaacgat gtataacttt 360
ggttcaatgt tttagtcata ggtttttaca tttaactcaa tgtggggaga gagcttttaa 420
atagatcata cgaacctaca tattacattt atcggttatt ataattgttt tggccctctc 480
atccaatata tacatatatt atggtcctag gttgtctttt ttaagttttc cattttgtta 540
aagaaagttc gatt 554

<210> 66
<211> 647
<212> DNA
<213> *Drosophila melanogaster*

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

<400> 66
tggactgata tgcaaaaaag catttcacca cggcacctgc gcatataatg gtggatagcc 60
tgtggaacgt ctttatctta tcgtgtaagg tggacacgac acgaacacta atcagagaat 120
agagcagttc taactcacia tattgataaa caaagtaagg gccagccgag agatacacgc 180
gcatttattg gcagcaaaca gaagccaaaa ctacggacat gtccgaatcg ggaatcaaaa 240
agttgagcca ggagcggact cgcgaatggt tggctagtca ggaggacgag gaactggagt 300
ccattgcaga gtccctcgggt gtggacagct tggactacga ttataccgag gaagaggagg 360
atgccgacca aaataccagt gaagaaatca gcactatgac actaggcact caaatcgcta 420
ccaaaaagca ttgatcatc agcgacacca taagggacct tatgaactcg atcaacagca 480
ttcagacttt gggcaacggt aatataagca actccacgaa cgtccatata ggcaatgtta 540
ccaatattaa tggaaatata caaatcatag ccgatggcct tactcaaaac cgaagagatc 600
ggcggcatgt ttcaccaccg agagataacg cttccaaaaa tccgacn 647

<210> 67
<211> 600
<212> DNA
<213> *Drosophila melanogaster*

<400> 67
gttttcaaac gctcagcggg gaaaatgtaa cggacgaacg cggctggcaa aactcacaga 60
cgttacaaga gaaccagaat aaaaaaggac tccacaagaa acggcaactc gacaaaatct 120
atacaaaagt gtctggctcg actgtgtgtg tgcttctgag tgaatgcttg tgtatgtgtg 180
tataaattag tttggttgtg tgagttgtta gagtcaaaga actaaaataa gactttcaga 240
tctagcaaat atgtcccata gttccccgag acgcgtatcc actgctgtag ccacttaaca 300
aacaatgccc aaagttaagg cgcacggaat ctctaataat cgaaaccaat aaaatgagcc 360
ccgttgcttg cagcaccaac actaacatcg gtcacatcga gcaggttgca ggcaatcaaa 420
ggacaaatat agctgggata agatcaatcc aaattggaac aaccacaatc acaacgatat 480
tgaaccagcg atgagatgga gcgtccgttg ggatgacgaa ctcagaaact cagtaaggga 540
gctgcaactg atactgaaac tgaacacaga accacagcgg cactcggaat ttagaggcga 600

<210> 68
<211> 598
<212> DNA
<213> *Drosophila melanogaster*

<400> 68
ccgccgagcg cctgctgcag catcccttcg tccagtgcga gatgtccttg cgggtggcca 60
aggagctgct gcagaagtac cagagtccca accgcagtt ctactactat ctcgatggcg 120
atgaggagtc tgtggcagga gtgccacaac gcattgccag caaaatgacg tcacgcacca 180
atggcgtgcc agcgcaaaat cacacactaa aaacaggcat gacgacgaac tccacgtgga 240
atgagcgatc ttctagtccc gaaacgttac ccagtgcacat gagcctctta caatatattg 300

atgaggagct gaagctaaga gcgaccttgc cactgaacaa cgacaccaaa gatccactcg 360
gcgccgagtg cagctgctcc tcccacaatg gaggagccgc cggaggagga ggaggaggag 420
gagttggagt aggagcagcg ggagcagccg cgagcggcag cagcagcagc agcggaggcg 480
caacagtcgg caccactcat catcagcacc aacagcacca ccaggatcac caccatccga 540
atcatctgca tcagcatcag gcccatcaat tgccgcaaca gcagcagcag cagtcaca 598

<210> 69

<211> 420

<212> DNA

<213> *Drosophila melanogaster*

<400> 69

cagctggacg cgccgagcat catggacgcc ttcttgga cagagcgaca gagaatcgag 60
cgcgagcagc aattggcggc ggcgagcag gatgcgacg gccgggcgga gcagaaccgg 120
ctggaactgt accagatttt ggccgcctcc gagcctgatc cgcaacctta ccagaggaag 180
ccggcgccac agccgaatgc tatggaccaa ctggaggcca ttgtggagca gcagcagcag 240
cgcgagctga aggagcagca ggagcaggcc aaggcacogg tctacgtgcc tcccaggag 300
gtgaacgagt cgagcgagct gtacttcccg gacaactttg ctcctttcaa gagagcaagg 360
ggtcgctcca ggggaggatt ggccgaggag gtggaggact aacagccgaa gcgctccttc 420

<210> 70

<211> 547

<212> DNA

<213> *Drosophila melanogaster*

<400> 70

aagcgtgcca gaaatggcaa cgacagtctg ggttcggact cgaattccag cagtccgcgc 60
cagcaaggca gccctccagt gatctgtgag gatgcggctg cttgcgcagc tctctccgg 120
tacactgtgg atcagctctc ggatctggcc agtcactgcc cagtgtctgag taacaacaat 180
gctgtgggac ctaccggagt tagtggtggt ggcatgcgg ataccaacaa tgtgaacacc 240
actccccgtc agtgcctctc tcgcttggtg ggcggtcagg aagtgatggg ccagtgccca 300
gtgccgcaca atcaggcaat ggttcctgcc aaatgtccag tagcgcatgc agactctggg 360
gattccttca gcgccaagag tggaaagtga ggggaatcgg ccaccactgc tcaactgtcca 420
ctacagatgc ccgtgggaca ggacttcatg gggaatgtc cgtacgttaa caacgatgtg 480
aaggtatcct ttgcccgaagc tggaaagtgt ccagtgtctg gcggtgtggc aggagcatca 540
gcttcta 547

<210> 71

<211> 605 -

<212> DNA

<213> *Drosophila melanogaster*

<400> 71

atgaatcctc tggacaaaat acacgctcta gatgagatcg aaaaggagat aatcctgtgc 60
atgcaaagtg caggacaagc cttgcaggag ttgggcaagg aaaagtcttc ccagaaaaat 120
gcggagaccg agtcgcagca gtttctcaag agtctgtcca gcgtggaatc gaagctgtcc 180
gagcagatca actacttgac ccagggtgtcc acgggtcagc cacacgaggg ttccggctat 240
gcatccgcca aagtgtctca aatggcttgg catcgcatc agcacgctag gtccagagtg 300
cgtgaacttg aggaaactaa ggccaaacac tcacatgcag ctctgcagca gttgaagcgt 360
cacaggaaca tgccgccgcc cagcaacagc agcagcaaca acaacagcag cagcagcaac 420
aacaacagat gcaacaggcg gcacaacagc agcaacaaca aaccggagga ggaaatgccg 480
gcagcggaga tcatccctgg gcggagactc ctcaatgtca accaactaat cttgcgctat 540

ctttaagggt aagggtttta aatTTTTtag agtgcattcc gaaaaggcac attttgtcca 600
ccaat 605

<210> 72

<211> 630

<212> DNA

<213> *Drosophila melanogaster*

<400> 72

tagatccgac agcacagtca tgaaatcaga ccgagaagcc ggtcgtgccg attcgcgac 60
ctggcggggtc cattgctcgt cctcgtgcaa tcggacattg tattcctcct gattctcatt 120
tccatcgggt cgcgaccaga tgagcttcaa tccattgccca ataagcacia tatcgtggcc 180
acgctcatag ttgccatag actccactat tagactgtac gacaggcgcc caccgtacga 240
gaatagctgg ttgcccagca cacttccct aagactccag tacttgggca gataggaggt 300
gtcgtgttag gtatacatat tcctagatat gtcgggaatt aagttctcgg tgcctggac 360
agctccgctt tcgtctgtaa ttaatggtgc gttagaata aagtcaccg gtattagctg 420
gcggtacaga gctgccgaac gacactggct ggccaatcca gagcagtagc actctttgca 480
gccatcctga ttttgagcag acagtccata ggttccaggg cggcattggc cgcattgatc 540
accaatcacg tttctcttgc acaggcattc gttgcgcgg caatcataga tgccctctat 600
ttggcaatag gccgtgcatt ccaaagtgtg 630

<210> 73

<211> 638

<212> DNA

<213> *Drosophila melanogaster*

<400> 73

taaagaccgg cattgctgaa gtgatgcgg atgatattgg ttatggaaag aatcggactg 60
tcgaggtgcg aacagaggat gaagtaaccg ccgatatggg ggcacattcg catgccggcg 120
tccatgctgc acatgtggcg cagcagccc atgtcgccca tgccgctgct atggagttgc 180
agcacagaag caaggaacca ccgcccag agatcagtgt gtcacgtaag acgcccacc 240
aatacagagt ggtagacgcc agtggctggc gtcagctgg cagtggttcc gtttcggttt 300
ccgtttcggg cgccaatagc caccattcgc cgtatcatcc accggcgcg gcctatgcc 360
ccagcaccta tgccctcccg tacagcggc tgaatgtgcc cggtgccggc ggtggattgc 420
caccgcacca gccgttgcag ctagcccacc aggcggtggc accacctgg gcctttgcca 480
aggccaagcg agcgcattgcc ctgagtgaac tgggtgcagt cgggtggggg gtgtcattgg 540
tggtggggcg cggctctgga ggaattgcag gcggaccagg tggtgtctca gtcggtgtcg 600
gtgtaccggg cggcgcgcgga ccaggaagcg gtggctgc 638

<210> 74

<211> 629

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1) ... (629)

<223> n = A,T,C or G

<400> 74

atcaatgctc tatgtacta tatcttgcct ttactataa ctgctgcag ctccgacgaa 60
caggaatgct aggcctgcca atcagtgtcc tcggctatca tgatggtgct ccagtactcc 120
aacaatccag cgcattcatt ccagctcctg gaggctctga tgactcttaa gcacaatgct 180


```
gtcaaggaca tcctctgcgt tgtggcatac ggaaccgctg tttcccgcac ctcggetgcc 240
aagctgctct tctactactg gccagccttt aacgccaatc tgttcgatcg caaagtccta 300
ctctccaaac taaccaatga cctagtgcgc ttcacctgcc aacgggagca ctgtccgaac 360
tccgggaatg cggaggcagc aaaggtgtgc tacgaccaca gcattagcat cgcatacgcg 420
cccgattgtc caccgcccct ttacctgtgc atcgagtgcg ccaacgagat tcatcgggag 480
cacggaagcc tggagtccg cgacattctg catcccatgc agcaggatc gatgggtgtgc 540
gaaaacaaga actgtcgcgc caacgagaag tcogncttct tcatctgctt ttccacggag 600
tgtgccagct tcaatggcca ccatccgat                                     629
```

<210> 75

<211> 588

<212> DNA

<213> *Drosophila melanogaster*

<400> 75

```
agagagacaa cgacacgaca cgacataagt ggggggtgggg gatagcgaac gagcccatcc 60
agcaacaaac ttcgcgaacg gcggcgacga cgcgcaaagc tcgactgaat tccaattcga 120
attcgggcac gctcagaagt accgttgagg tgcagcgacg ccggcgatgg gtaaacaata 180
ataggaatgg ctaaagacgt gcggagccct tgcgtcctc cagccccgt ttccgacct 240
cccccgctg ccgctcccg cccaaagaca cactcctaca aagagctcaa ctgtttacac 300
acacacacac acacacaggc acggacacgg aagtgtgtat ggggtgagacg taattaaagc 360
ttgaaaccga gtttacaaca acaacgagcc cgcagtcgc caccaccac cccacgccgc 420
acacccccctg cgaagagccg aagtcgaagc aacagctaga agaagaggct taagagagag 480
agagagagag agagagagag agagcgggaa agagggaata ttggatactt cgcgagaga 540
gaaacccccca acaacgagcg cagtttataa ataaaccttg ttcttttc 588
```

<210> 76

<211> 579

<212> DNA

<213> *Drosophila melanogaster*

<400> 76

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tttggctaac catttctttt tatataaaag taagtaaact aagaactaat cctaggcctg 60
caggaagtct cagagattgc cacatatatt gtcgatttcc gcacatcccg attgtccag 120
cgctgaaatg gcattggcga gggccacggg ttctttcagg gaatgggcct tcaaccatat 180
cctgccgttg actccacag cgatctcgta gggcagttcc cgggtaagag cggcgagaa 240
agggcagttt tcccgagca gcatccttcc cagattcagg ctgcacttga agaagaatcc 300
atcgatagac atgcaatcca cagctacgtg tggatccga ttactctaac cttgtgcgaa 360
ggtcaatttt ccccaaaaaa tataggaaac gtaccaggga aaacaacaaa aaagggaag 420
cgcacccccca tactgaaaac cggcgagcac ctggaaacgc atacatataa aaggagagta 480
aatatacaaa ttggtagcac ttgcgcgc gtcttttaca cattcaagcc atgtcttgga 540
ccgcttcagt tttcttgagg acttacacca ctagcatga 579
```

<210> 77

<211> 656

<212> DNA

<213> *Drosophila melanogaster*

<400> 77

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attatgttca gaaccttccg cccggagtca tcgaagtggg tggctctccac atcaagaacc 60
agaccagccc ttgcccacg tatatacaag aattcacgga gaagttcttc gacggcattg 120
tgtacatcaa tatgccctat attgagtata tgaatgacca gggattgaag gctatgtata 180
cgatgattca cggaaatccc aatgttgcc tcatctggaa tgtggagcaa ctagagcagt 240
```

```
tgccggccaa gaaaccaa atctgttgacgc ttcattgtgaa tcaatcacta cagcaagaca 300
tcttggctat gcagtacgtc aaggggttcc tgaatcatgg agatagtttc agtcttcagg 360
aggcaattca ctatggagtg cccgtcgctc tgcttccct taaactagag gaatttaata 420
atgcccacg tgtaattgaa cgcaacttgg gtgtgatgct tcagggtcaag gaatttaacc 480
aaagctccct gtcggatgcc cttacgcgaa tcctggatga ggagcgtttc ataagtgtc 540
tccaccaggc ccagttgaag ttccggagcc gtcgcgaatc cgcctggaa ttggctgtat 600
ggcatgcgga acaacttatc gccgaaccac gactatttaa acattttgca caaact 656
```

<210> 78

<211> 549

<212> DNA

<213> *Drosophila melanogaster*

<220>

<221> misc_feature

<222> (1)...(549)

<223> n = A,T,C or G

<400> 78

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caacttcgat cggggcatat aaaaccagtg cttccaatcc gaaggcaaag cataaaagat 60
cagaacatca gtagccgaag attggctgag tagcacggac agcgggcaag tcctttgaaa 120
cgttggtagt ttgcaaccgg gtttgccaac ttcttttga gttcagtggt gctcaactat 180
cgacacaact atctctggct ttgcgaaaac tcagtaaacc gacacattga cattcgaaaa 240
ttgggattga aaactcaaga tgccgactac accacaggat cttgnccctt gccactctc 300
ttgctcaaag acctccgacc gatagcagtg aggccaaagg gcaggaggcc ggcgaaatcg 360
acaacctgcc caacctgtgc actttgtcgc tggacgaact gaaacagctg gacagggatc 420
ccgagttctt cgaggacttc atcgaggaga tgtccgtggt gcagtacctg aacgaggagc 480
tcgattcaat gatggaccag gtggagatta tatcaagaga gaacgagtg aagggcattc 540
atctggtag
```

<210> 79

<211> 486

<212> DNA

<213> *Drosophila melanogaster*

<400> 79

```
ccgtcggaca gctccgactc ggacatctca ctgggcaccc actcgccggt gccgagcagc 60
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